200300329

THE UNITED STATES OF ANTERIOR

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

III LECTRS. THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT.

**CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT

OPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR T VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'25R54'

In Testimen Marrest, I have hereunto set my hand and caused the seal of the Plant Unriety Artestion Office to be affixed at the City of Washington, D.C. this thirteenth day of April, in the year two thousand and four.

@2mJc

Commissioner Plant Variety Protoction Office Agricultural Marketing Sorvice Surena Surena Sericulturo

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)

SIGNATURE OF OWNER

SIGNATURE OF OWNER

SIGNATURE OF OWNER

NAME (Please print or type)

NAME (Please print or type)

CAPACITY OR TITLE

Wheat Research Director

SIGNATURE OF OWNER

CAPACITY OR TITLE

DATE

CAPACITY OR TITLE

DATE

(See reverse for instructions and information collection burden statement)

IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)

☑ NO

YES

YES X NO

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact; Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or cell 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

19A. Exhibit A. Origin and Breeding History of Pioneer Wheat Cultivar 25R54.

Pioneer® cultivar '25R54', a soft red winter wheat (*Triticum aestivum* L.) was developed by Pioneer Hi-Bred International, Inc.. Using a modified pedigree selection breeding method, 25R54 was derived from the three parent cross:

2571/WBG0195D1//2552

The cultivar, WBG0195D1, was a Pioneer line derived from the cross: Sumai3/2555//WEE109. The cultivar, Sumai3 (PI 481542) is a Chinese line with high levels of resistance to *Fusarium* head blight. The cultivar, WEE109, was a Pioneer line derived from the cross 2555/3/2555sib./KS81H1640HF//2555. The cultivar KS81H1640HF (Cltr 17960) was a germplasm release from Kansas State University. The detailed parentage of 25R54 is:

2571 /6/ Sumai3 (PI 481542) / 2555 /4/ 2555 /3/ 2555sib. / KS81H1640HF (Cltr 17960) // 2555 /7/ 2552

The single cross 2571/WBG0195D1 was made in the 1992 spring greenhouse cycle and was designated WBP2058. During the 1992 fall greenhouse cycle the F_1 , WBP2058, was crossed with 2552 and the final cross designated W930080. The subsequent breeding history of 25R54 is described below.

<u>Year</u>	<u>Generation</u>	•
1992	Final cross	
1993	F ₁	F₁ grown in transplant nursery at Windfall IN.
1993-94	F ₂	Bulk populations grown at Windfall and Ft. Branch, IN. Individual spike selections made at Windfall, IN.
1994-95	F ₃	Headrows from F_2 selections grown at Windfall, IN. Selected rows cut and threshed individually.
1995-96	F ₄	A three row X 3-meter observation plot was planted at Windfall and Ft. Branch, IN. A meter section of the center row was harvested from the selected plot and threshed in bulk.
1996-97	F ₅	A seven row X 3-meter plot was planted at Windfall and Ft. Branch, IN. Fifty spikes were harvested from the selected plot and threshed individually.
1997-98	F ₆	Twenty headrows of the F₅ selection were grown at Windfall and Ft. Branch, IN. Selected rows were cut and threshed individually. This selection was made at Ft. Branch, IN.

1998-99	F ₇	Preliminary yield testing of an F_5 selection from an F_6 headrow. This selection designated W930080K1.
1999-2000	F ₈	Advanced yield testing of W930080K1. 200 individual spikes were harvested from a small bulk increase.
2000-2001	F ₉	Elite yield testing of W930080K1. A 0.2 acre space-planted increase surrounding 200 headrows was grown. Off-type plants and headrows were destroyed prior to harvest. 1000 individual spikes, 110 headrows and bulk seed were harvested. Bulk seed constitutes Breeder Seed. Bulk seed, headrow bulks, and individual spikes were turned over to Pioneer's Supply Management, Parent Wheat production group.
2001-02	F ₁₀	Elite yield testing continued, line designated YW01A. Seed increase continued by Pioneer Parent Wheat Seed Group.
2002-03	F ₁₁	Elite yield testing continued, line designated XW01A. Seed increase continued by Pioneer Parent Wheat Seed Group.

Decision to release W930080K1 was made in August, 2003 at which time the commercial code, 25R54 was assigned.

The cultivar 25R54 was bred and selected for any and all of the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking characteristics.

25R54 has been shown to be uniform and stable since the 7th generation, or for the last 5 generations. 25R54 has shown no variants other than what would normally be expected due to environment.

19B. Exhibit B. Statement of Distinctness

25R54 is most similar to Pioneer variety 2552 but with the following distinguishing characteristics:

- 1. The flag leaf of 25R54 is recurved at booting, while that of 2552 is erect.
- 2. The seed crease depth of 25R54 is mid-deep, while that of 2552 is shallow.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (Triticum spp.)

NAME OF APPLICANT(S)				FOR OFFICIAL USE ONLY	
Pioneer Hi-Bred Inte	rnational, Inc.			PVPO NUMBER 2003	00220
ADDRESS (Street and No. or RD No.				<u> </u>	V V V E 3
Crop Genetics Research	arch & Development			VARIETY NAME 25	R54
3850 N. 100 E.					
Windfall, IN 46076-9	9389			TEMPORARY OR EXPERIMENT	AL DESIGNATION
Place a zero in the first box (e minimum of 100 plants. Con	e.g. 0 9 9 or 0 9) wher	n number is either 99 or less or 9 ned from varieties entered in the Color Charts for Plant T	or less respectively. It is same trial. Royal Hor ISSUES	character of this variety in the bood to character of this variety in the bood to character of the character	ers should be based on a ed color standard may be used
1. KIND:					
1	1=Common	2=Durum	3=Club	4=Other	(SPECIFY) :
2. VERNALIZATIO	N:				
2	1=Spring	2=Winter	3=Other (S	SPECIFY) :	
3. COLEOPTILE AN	NTHOCYANIN:				
2	1=Absent	2=Present			
4. JUVENILE PLAN	T GROWTH:				
2	1=Prostrate	2=Semi-erect	3=Erect		
5. PLANT COLOR ((boot stage):				
2	1 = Yellow-Green	2 = Green	3 = Blue-G	reen	
6. FLAG LEAF (boo	t stage):				
2	1 = Erect	2 = Recurved	2	1 = Not Twisted	2 = Twisted
7. EAR EMERGENC	E:				
*	Number of Days Earl	ier Than		···	
	Number of Days Late	r Than 25R4	9		

8.	ANTHER COLOR:	The state of the s
	1 = Yellow 2 = P	urple
9.	PLANT HEIGHT (from soil to top of head, excluding awns)) :
	5 cm Taller Than 25R49	· *
٠	cm Shorter Than	**************************************
		* Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial
10.	STEM:	
	A. ANTHOCYANIN	D. INTERNODE (SPECIFY NUMBER)
	1 1= Absent 2=Present	1 1= Hollow 2=Semi-solid 3=Solid
	B. WAXY BLOOM	E. PEDUNCLE
	1 1=Absent 2=Present	2 1=Absent 2=Present
	C. HAIRINESS (last internode of rachis)	cm Length
	2 1=Absent 2=Present	
11.	HEAD (at Maturity):	
٠	A. DENSITY	C. CURVATURE
	2 1=Lax 2=Middense 3= Dense	2 1 = Erect 2 = Inclined 3 = Recurved
	B. SHAPE	D. AWNEDNESS
	1 = Tapering 2= Strap 3 = Clavate 4 = Other (SPECIFY):	$ \begin{array}{ c c c } \hline 4 & 1 = Awnless & 2 = Apically Awnletted \\ 3 = Awnletted & 4 = Awned \end{array} $
12.	GLUMES (at Maturity):	
	A. COLOR	C. BEAK
	$\boxed{2} 1 = \text{White} \qquad 2 = \text{Tan}$	3 = Obtuse 2 = Acute 3 = Acuminate
. /	3 = Other (SPECIFY) :	w and shared and the state of t
	B. SHOULDER	D. LENGTH
and a	1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate	1 = Short 2 = Medium (ca. 7mm) (ca. 8mm) 3 = Long (ca. 9mm)

12.	GLUMES	S (at Maturity) <i>Continued</i> :		
	E. W	идтн		
	1	1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)	m)	
13.	SEED:			
	: A. Sl	наре	C. BI	RUSH
,	1	1 = Ovate 2 = Oval 3 = Elliptical	1	1=Short 2=Medium 3=Long 1 = Not Collared 2 = Collared
	B. C	неек	D. CI	REASE
	1	1=Rounded 2=Angular	1	 1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel
	•		2	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel
	E. Co	lor	G. PH	IENOL REACTION (see instructions):
	3	1=White 2= Amber 3= Red 4= OTHER (Specify)	4	1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black
	F. TE	XTURE		
	2	1=Hard 2=Soft		
14.	DISEASE	: (0=Not Tested; 1=Susceptible; 2=Resis	stant;	3=Intermediate; 4=Tolerant)
	·	PLEASE INDICATE THE SPECI	FIC RA	CE OR STRAIN TESTED
	0	Stem Rust (Puccinia graminis f. sp. tritici)	3	Leaf Rust (Puccinia recondita f. sp. tritici) Field races
•	2	Stripe Rust (Puccinia striiformis) Field races	0	Loose Smut (Ustilago tritici)
	3	Tan Spot (Pyrenophora tritici-repentis) Field races	0	Flag Smut (Urocystis agropyri)
	0	Halo Spot (Selenophoma donacis)	0	Common Bunt (Tilletia tritici or T. laevis)
	3	Septoria nodorum (Glume Blotch) Field races	0	Dwarf Bunt (Tilletia controversa)
	0	Septoria avenae (Speckled Leaf Disease)	0	Karnal Bunt (Tilletia indica)
	3	Septoria tritici (Speckled Leaf Blotch)	3	Powdery Mildew (Erysiphe graminis f. sp. tritici) Field races
. 5 .	3	Scab (Fusarium spp.) Field races	0	"Snow Molds"

14.	Diseas	e (Continued) (0=Not Tested; 1=5	Susceptible; 2	2=Resistant; 3=Intermediate; 4=Tolerant)
		PLEASE INDICA	ATE THE SPEC	CIFIC RACE OR STRAIN TESTED
	0	"Black Point" (Kernel Smudge)	0	Common Root Rot (Fusarium, Cochliobolus and Bipolaris spp.)
•	0	Barley Yellow Dwarf Virus (BYDV)	0	Rhizoctonia Root Rot (Rhizoctonia solani)
	3	Soilborne Mosaic Virus (SBMV) Field races	0	Black Chaff (Xanthomonas campestris pv. translucens)
	3	Wheat Yellow (Spindle Streak) Mosaic Field races	Virus 0	Bacterial Leaf Blight (Pseudomonas syringae pv. syringae)
	0	Wheat Streak Mosaic Virus (WSMV)		Other (SPECIFY)
-		Other (SPECIFY)		Other (SPECIFY)
		Other (SPECIFY)		Other (SPECIFY)
		Other (SPECIFY)		Other (SPECIFY)
15. I	NSECT:	(0=Not Tested; 1=Susceptible;	2=Resistant;	3=Intermediate; 4=Tolerant)
•		PLEASE SPE	СІҒҰ ВІОТҰРІ	E (where needed)
	1	Hessian Fly (Mayetiola destructor) Biotype L		Other (SPECIFY)
-	0	Stem Sawfly (Cephus spp.)		Other (SPECIFY)
	0	Cereal Leaf Beetle (Oulema melanopa)		Other (SPECIFY)
· · · .	0	Russian Aphid (Diuraphis noxia		Other (SPECIFY)
	0	Greenbug (Schizaphis graminum)		Other (SPECIFY)
	0	Aphids		Other (SPECIFY)

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS

19D. Exhibit D. Additional Description of the Variety

1. Yield and Agronomic information.

Preliminary yield testing of 25R54 began in the 1998-99 growing season and wide scale testing has been conducted from the 1999-2000 growing season to the present. It has shown adaptation to the northern soft wheat regions based on tests conducted in Arkansas, Kentucky, Missouri, Illinois, Indiana, Ohio, Michigan, Maryland and Ontario, Canada (Table 1).

2. Information on Milling and Baking Qualities.

25R54 has demonstrated very good soft winter wheat milling and baking qualities (Table 2).

Table 1. Paired comparisons of 25R54 during the period 2000-2003.

Variety	Grain Yield	Test Weight	Plant Height	Heading Date	Straw Lodging	Leaf Rust	Leaf	Powdery	Scab	Stripe	SSMV	SBMV
	bu/ac	nq/qI	# ## ## ## ## ## ## ## ## ## ## ## ## #	After Jan 1	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@
25R54 2552	89.8 86.5	57.9 58.7	94.7	123.1	7.5	5.9	4.9	7.5	7.7	8.3	6.3	5.9
Years	Į.	3	co	3		2	Sign	100	co c	0.0	8.0	6.7
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Prob.	_	0.000	0.014	0.000	0.584	0.000	0.030	0.030	0000	n	7100	000 C

	57.7	95.3	126.1	7.4	6.5	4.8	7.5	11	2.0	63	
	7 14				3	•	3) • ₁	o.	0.0 C.	0.0
- 1	4./0	89.9	170.3	6.5	7.1	4.6	4.3	7.7	0.0	46	y y
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25R54 25R49

@ Scale of 1-9 where 9 = excellent or resistant, 1 = poor or susceptible

Data in above table collected at locations in Arkansas, Kentucky, Missouri, Illinois, Indiana, Ohio, Michigan, Maryland and Ontario, Canada.

Table 2. Average Soft wheat quality data, 2000-2003.

Variety	Flour Yield	Break Flour Yield	Flour Protein	AWRC	Lactic Acid	Cookie Diameter
	%	%	%	%	%	Cm
25R54	72.1	43.8	8.8	55.4	99.5	18.0
Years(reps)	3(6)	3(6)	3(6)	3(6)	1(2)	2(3)
2552	72.5	43.5	10.3	55.2	84.9	18.2
Years(reps)	4(9)	4(9)	4/9)	(0)/	1(3)	200
		()	(2).	(2)+	(5)1	7(7)
25R49	72.5	43.9	8.2	563	288	18.7
Years(rens)	4(29)	4(29)	4000	4(20)	(4)	7.7
	7,21	(22)	T(77)	4(22)	(5)1	3(14)
25R42	72.8	42.8	10.1	54.3	87.3	19.0
Years(reps)	4(20)	4(20)	4(20)	4(20)	1(4)	3(7)

AWRC = Alkaline Water Retention Capacity.

Lactic Acid SRC = Lactic Acid Solvent Retention Capacity

Quality data collected at Pioneer in Johnston, IA and the USDA-ARS Soft Wheat Quality Lab in Wooster, OH.

REPRODUCE LOCALLY. Include form number and edition date on a	all reproductions.	FORM APPROVED - OMB No. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.	421). The information is held
NAME OF APPLICANT(S) Pioneer Hi-Bred International, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME 25R54
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
Crop Genetics Research & Development Wheat Research	(765) 945-7906	(765) 945-8313
3850 N. 100 E. Windfall, IN 46076-9389	7. PVPO NUMBER	200300329
8. Does the applicant own all rights to the variety? Mark an "X" in the	ne appropriate block If no places overis	in. YES NO
Is the applicant (individual or company) a U.S. national or a U.S.	based company? If no, give name of c	ountry. X YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation NO If no, give name of count	
		
b. If the original rights to variety were owned by a company(ies) YES), is (are) the original owner(s) a U.S. ba NO If no, give name of countr	
11. Additional explanation on ownership (Trace ownership from original explanation)	inal breeder to current owner. Use the re	everse for extra space if needed):
		•
PLEASE NOTE:		***************************************
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals o 	erson must be a U.S. national, national of f the U.S. for the same genus and specio	of a UPOV member country, or es.
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection t	must be U.S. based, owned by o nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.
The original breeder/owner may be the individual or company who din Act for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055. including the time for reviewing the instructions, searching existing data sources, gathering a	I DO time required to complete this information collec-	lian is actimated to summan 0.4 hour new manas
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